

ACC NR: AP6032534

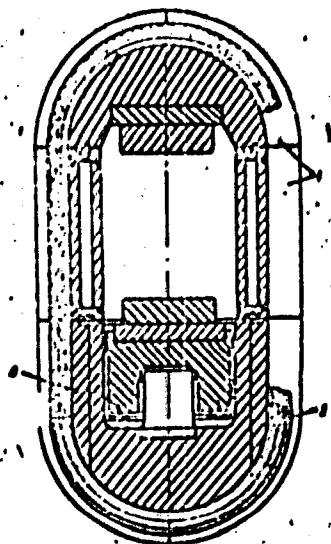


Fig. 1. Hydraulic press reinforced with wire wrapping

- 1 - Stiffening ribs; 2 - wrapping;
- 3 - lower crossmember.

between the wrapping, and the lower crossmember of the press is laminated and serves as a hydraulic cylinder. Orig. art. has: 1 figure.

SUB CODE: SUBM DATE: 20Aug64/

Card 2/2

USHAKOV, Viktor; KITAIN, V., red.; VLASOVA, V., tekhn.red.

[Rockets watch over the Soviet sky; report] Rakety steregut
sovetskoe nebo; reportash. Moskva, Izd-vo "Izvestiia,"
1960. 73 p. (Biblioteka "Izvestii," no.9)

(Guided missiles)

(Rockets (Aeronautics))

(MIRA 14:3)

~~BARASHEV, Pavel Rosenovich; KITAIK, Valentin Semenovitch; ANTIPINA, L.,
redaktor; KUKOLINA, L., tekhnicheskii redaktor~~

[Orid square B-52. The path of the doomed] Kvadrat B-52, Troi
obrechennykh. [Moskva] Izd-vo TsK VLSM "Molodats gvardia,"
1957. 143 p. (MIRA 10:10)
(Subversive activities)

GENEL', S.V., kand. tekhn. nauk; BAKANOV, S.I., inzh.; KITAINA, L.B.,
nauchnyy red.; ALEKSEYEVSKAYA, Ye.A., red.

[New advanced technology and technological equipment in the
machinery industry] Novaya progressivnaya tekhnologiya i
tekhnologicheskoe oborudovanie v mashinostroyeni. Moskva,
1963. 55 p. (MIRA 17:8)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy in-
formatsii po avtomatizatsii i mashinostroyeniyu.

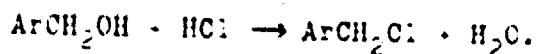
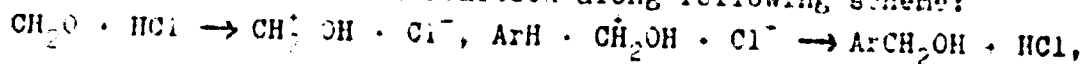
S/080/60/033/010/022/029
D216/D306

AUTHORS: Kretov, A.Ye., Silin, N.P., Korchagina, A.M.,
Lokshin, G.B., and Kitaina, S.N.

TITLE: The synthesis of terephthalic acid by chloromethylation of the products of aromatic hydrocarbons

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960,
2329 - 2335

TEXT: The authors studied the synthesis of terephthalic acid from toluene and its homologues by chloromethylation. This chloromethylation is widely used in organic synthesis, being a typical electrophilic substitution reaction along following scheme:



The authors, by increasing the temperature of the reaction by 20°C, (to 50-75°C) achieved the cut in synthesis time to 12 hours while

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The synthesis of ...

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still retaining the yields of I. Nazarov and A. Semenovskiy (Ref. 21: DAN SSSR, 12, 1437, 1956). The increase in yield of isomeric xylochlorides was obtained by changing the proportions of toluene and formaldehyde. The optimum yield of 82.5 % was obtained with the formaldehyde content of 95 % of toluene giving a molar proportion of toluene and formaldehyde of 2:1 (formaldehyde was used in form of 40 % formalin). On the chloromethylation of ethyl benzene at 70-75°C for 25 hours a maximum yield of ethyl benzyl chloride of 90 % (on ethyl benzene used) was obtained with a proportion 1:1 of ethyl benzene-formaldehyde. The optimum yield of iso-propylbenzyl chloride was 80 % on the cumene used and with a proportion of cumene:formaldehyde of 3:1, temperature 70-75°C, time 25 hours. The authors studied the oxidation of isomeric xylochlorides with dilute (10 %) nitric acid with an optimum yield of toluic acids, of 89 % for periods of 17-18 hours. Later, in connection with the discovery of nitroproducts, the concentration of acid was cut down to 7-5 % and the times to 12-10 hours. The yield obtained was 85 %. On oxidation of iso-propyl benzyl chloride, besides iso-propyl benzoic acid, whose yield was up to 80 %, 20 % of a product was obtained which

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was insoluble in a soda solution and which seemed to be a tertiary alcohol. The fractional precipitation of toluic acids was also used as a means of separation, by removing HCl from the solutions of sodium salts. 2-toluic acid was obtained with a yield of 42.3% and melting point 170 - 178°C, 2-toluic acid with a yield of 41.4% and a melting point 95 - 99°C. Dicarboxylic acids were also obtained with high melting points and a yield of 17.5%. Technical literature gives various methods of esterification of terephthalic acid, but the authors obtained dimethyl terephthalate by esterification of the acid with a large excess of methanol (48 mls. to 1 g. of acid) and in the presence of concentrated sulphuric acid. This product proved unsuitable for transesterification. Esterification of dicarboxylic acids in the presence of hydrogen chloride yielded 96% of dimethylterephthalate which did not darken on heating to 250°C. Further purification was achieved by double distillation under CO₂. The product obtained gave a melting point of 141°C, which agrees with the required standard. There are 4 tables, 1 figure and 32 references: 6 Soviet-bloc and 26 non-Soviet-bloc.

Card 3/4

The synthesis of ...

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The 4 most recent references to the English-language publications read as follows: Chem. Trade J., 143, 3717, 504, 1958; J. Bengstrom, J. Org. Chem., 23, 212, 1958; Khasimata, Ono Kagakhamu, Annesi, J. Chem. Soc. Japan (Ind.) 59, 1196, 1216, Am. Pat. 2766280, 1956.

SUBMITTED: March 15, 1960

Card 4/4

AKERMAN, Karol; BRAFMAN, Marek; FIK, Henryk; KITALA, Jan; NOWAK, Maciej;
POCZYNAJLO, Andrzej

Isotopic studies on the separation course of impurities
during the zinc redistillation process. Archiw hutn 8
no. 2: 103-118 '63.

1. Instytut Badan Jadrowych Polskiej Akademii Nauk, Zaklad
XVI, Warszawa (for Akerman, Brafman, Nowak).
2. Biuro Projektow, Zjednoczenie Gorniczo-Hutnicze Metali
Biezelskich, Gliwice, (for Fik)
3. Zaklady Cynkowe Silesia, Huta Welnowiec (for Kitala).

SHEVCHENKO, A.A., doktor tekhn. nauk; GULIAYEV, G.I., kand. tekhn. nauk;
YURCHENKAS, V.A., mladshiy nauchnyy sotrudnik; KITANENKO, Y.P.,
insh.; DERGACH, A.Ya., insh.; ZUYEV, I.I., insh.; KOROBCHIK, I.Ya.,
insh.

Reduction of stretched thin-walled pipes. Bul. TSNIICM no.4:
31-33 '58. (MIRA 11:5)
(Pipe) (Rolling (Metalwork))

3

22/28

1.1300

also 1413, 1454

S/137/61/000/003/013/069
AC06/A101

AUTHORS:

Shevchenko, A.A., Oulyayev, O.I., Yurgelenas, V.A., Kitarenko, V.
P., Dergach, A.Ya., Zuyev, I.I., Korobochkin, I.Yu.

TITLE:

A technology of pipe reduction with tension

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 3, 1961, 33, abstract 30266
("Byul. nauchno-tekhn. inform. Ukr. n.-i. trubn. in-t", no. 6 - 7,
1959, 15 - 21)

TEXT:

VNITI together with the Yuzhnotrubnyy Plant determined the parameters of pipe reduction with tension, in order to assist the pipe-rolling shops in assimilating the given technology. For the first time pipes of 57x2.75; 50x2.75; 38 x 2.75; and 38 x 2.5 mm with $\pm 10\%$ tolerances of wall thickness were obtained by hot rolling for the cold drawing shop. The authors investigated and recommended the grooving of rolls of the reduction mill with higher partial deformations.

K. U.

[Abstracter's note: Complete translation.]

Card 1/1

3

AKIMOVA, Ye.P.; RUDDY, V.S.; SHEVCHENKO, L.N.; NESTEROVA, N.N.;
Prinimali uchastiye: VASILENKO, S.I.; ZUYEV, I.I.; VIL'YAMS, O.S.;
LAGUTINA, R.V.; DERGACH, A.Ya.; KITANENKO, V.P.; KIRVALIDZE, H.S.;
YAKIMENKO, H.S.; SAMOYLENKO, V.D.

Effect of the method of manufacturing E1847 steel on the quality
of tubes. Stal' 21 no.12:1113-1114 D '61. (MIRA 14:12)

1. Ukrainakiy nauchno-issledovatel'skiy trubnyy institut (for
Akimova, Rudoy, Shevchenko, Nesterova). 2. Nikopol'skiy
yuzhnotrubnyy zavod (for Vasilenko, Zuyev, Vil'yams, Lagutina,
Dergach, Kitanenko, Kirvalidze, Yakimenko, Samoylenko).
(Steel, Stainless—Electrometallurgy)
(Pipe mills—Quality control)

LAGOSHA, I.A.; KOVALENKO, N.A.; KRUKHIN, A.Ye., red.;
SHUVALOVA, N.S., nauchn. red.; KITAINA, L.B., nauchn.
red.; BOBAKOV, A.N., red.

[Technical equipment for meat combines; catalog] Tekhnologicheskoe oborudovanie miasokombinatsiy; katalog. Moskva, TsINTIAM, 1963. 138 p. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy i eksperimental'no-konstruktorskiy institut proizvodstva mashinostroyeniya (for Lagosha, Kovalenko)

L 27775-65

ACCESSION NR: AF50013A3

$$\Leftrightarrow u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} - \frac{1}{\sigma} \frac{\partial p}{\partial x} + \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right) = \sigma \mu H_x H_y + \frac{\sigma \mu}{\sigma} (u H_x + v H_y) H_y.$$

$$\Leftrightarrow \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0;$$

$$\Leftrightarrow \frac{\partial H_x}{\partial x} + \frac{\partial H_y}{\partial y} = 0;$$

$$\Leftrightarrow \vec{j} = \sigma [\vec{u}, \vec{H}] = \text{rot } \vec{H}.$$

(1)

and uses the customary notation. The solution of the system supplies the velocity and magnetic field distribution within the boundary layer of the incompressible fluid. The article also specifies the existence domain of the solution and the formulas.

ASSOCIATION: Leningradskiy politekhnicheskii institut (Imeni M. I. Ekhtina) (Leningradskiy politekhnicheskii institut)

U.S. / (Sov. m) / RPH/PCS (E) / E44 (1) 04-1/P1-1 05 000 001/0337/0042

Kitanin, E. L.

...conducting fluid near the surface of a line of two ...
...magnetic field

Magnitnaya gidrodinamika, no. 1, 1965, 37-42

magnetohydrodynamics, conductive fluid, Reynolds number, boundary layer

The influence of magnetic and electric fields on the boundary layer of an ...
...constant viscosity ...
...in three ...
...while the ...
...of the ...
...to ...
...equation ...
...method. The results ... agree
...for the ...

Card 1/2

KRUZE, E.E.; BAKLANOVA, I.A.; KITANINA, T.M.; PLYUKHINA, M.A.;
TITOVA, A.N.; VIATKIN, M.P., *otv. red.*; GOL'DBERG, N.M.,
red.isd-vn; KRUGLIKOVA, N.A., *tekhn. red.*

[Monopolies in the metal industries of Russia from 1900 to
1917; documents and materials] Monopolii v metallurgicheskoi
promyshlennosti Rossii, 1900-1917; dokumenty i materialy.
Moskva, Izd-vo Akad. nauk SSSR, 1963. 653 p. (MIRA 16:7)

1. Akademiya nauk SSSR. Institut istorii. Leningradskoye
otdeleniye.

(Iron industry) (Steel industry) (Copper industry)

KITANOV, B., prof.

Academician Nikolai A. Stofanov; on the occasion of his
80th birthday. Prir i znanie 17 no.3:1-3 '64.

KITANDY, E.

"New Data and Critical Notes on Bulgarian Flora." p.217 (IZVESTIYA, Vol. 3, 1953, Sofiya.)

SO: Monthly List of East European / Vol. 3, No. 3
Russian Accessions, Library of Congress, March ¹⁹⁵⁴~~1953~~, Uncl.

KITANOV, B.,

Stoianov, M., Kitanov, B., Velchev, V., "Floral Material from Dobruzhia." p.245
(IZVESTIYA, Vol. 3, 1953, Sofiya.)

50: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress,
March 1954, Uncl.

KITANOV, B.

"Phytofolklore; Material on Folk Medicine." p.249 (IZVESTIYA, Vol. 3, 1953, Sofiya.)

SO: Monthly List of ^{East European} Russian Accessions, / Vol. 3, No. 3, Library of Congress, March ¹⁹⁵³ ~~1955~~, Uncl.

KITANOV, B.

"Material on the Utilization of Wild Plants in Home Economics." p.257 (IZVESTIA,
Vol. 3, 1953, Sofiya.)

SO: Monthly List of ^{East European} ~~Russian~~ Accessions, / Vol. 3, No. 3
Library of Congress, March 1954, Uncl.

KITANOV, B.; PALAMAREV, Em.

The Eocene Charophyta from the Khadzhi Dimitur coal mine, Sliven region. Godishnik biol 56 no.1:1-10 '61-'62 [publ. '63].

IORDANOV, D.; KITANOV, B.

Some interesting Pliocene fossil plants in the Gotse Delchev region. Godishnik biol 56 no.1:25-37 '61-'62 [publ. '63].

2

5/724/61/000/000/018/020

AUTHORS: Al'tman, M. B., Baykova, L. T., Krysin, B. T., Korol'kova, L. M.,
Smirnova, T. I., Kitari, G. G., Shitov, M. I., Sharuda, V. F.,
Tyukin, I. T., Syromyatnikova, M. A.

TITLE: Vacuum refining of Aluminum alloys.

SOURCE: Liteynnye alyuminiyevyye splavy: svoystva, tekhnologiya plavki, lit'ya i termicheskoy obrabotki. Sbornik statey. Ed. by I. N. Fridlyander and M. B. Al'tman. Moscow, Oborongiz, 1961, 150-156.

TEXT: The paper describes the development of a method for the vacuum refining of Al alloys with the use of a flux, and the construction and development of a vacuum equipment for the refining of Al alloys capable of refining a melt of up to 300 kg. The refining method developed was intended to remove the various gaseous and solid nonmetallic impurities which enter into an Al alloy in the course of its smelting and to avoid, also, the difficulties encountered with method used heretofore, which consisted in the toxicity of the Cl and the chlorous and fluorine salts used to date. The basic concepts of the new method are the following: The impurities encountered in Al melts consist of H and oxides, primarily Al oxides. The H carries a positive charge (H^{+}), whereas the Al oxides are charged negatively (O^{2-}).

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Vacuum refining of Aluminum alloys.

S/724/61/000/000/018/020

Hence, the H is readily adsorbed on the particles of Al oxide. If the H can be induced by the application of a vacuum to migrate to the surface of the melt, it is postulated that the solid nonmetallic impurities should be entrained thereby and become susceptible to capture by adsorption by a suitable flux placed on the surface of the melt. The rate of progress of such a process should be controllable simply by altering the power applied to the vacuum pump. The investigation was made on AA4 (AL4) and AA9 (AL9) Al alloys. The relationship between the weight of a melt and the vacuuming time was explored experimentally. While the test results indicated that the Mg content remained constant regardless of the vacuuming time, the porosity of the alloy was appreciably reduced in vacuuming tests lasting from 2 to 6 minutes. The addition of a suitable flux, as defined above, improved the degassing, with a subsequent further reduction in porosity and improvement in the mechanical properties of the alloy by 10-15%; this improvement eliminates the need for crystallization of cast parts in an autoclave in many instances. Typical vacuum-refining times at 780-790°C, in the presence of 0.2% of a suitable flux, are: For a metal weight of 50-100 kg, 3 min; 100-150 kg, 5 min; 150-250 kg, 7-9 min. The improvements obtained by the vacuum-refining procedure with the adsorbing flux are illustrated by tables of mechanical properties and photographs of the macrostructure of complex cast parts. There are 6 figures and 5 tables; no references. The participation of A. P. Shulepin, I. S. Kuznetsov, D. S. Chervyakov, and A. I. Komendant in the investigation is acknowledged.

Card 2/2

KITAROV, S. I., insh.

Constructive work of the designers and efficiency promoters at the
Varegovo Peat Works. Torf.prom. 37 no.7:7-9 '60. (MIRA 13:11)

1. Varegovskoye torfopredpriyatiye.
(Varegovo--Peat machinery)

KITAR'YEV, Ya.S.

How to regulate the turning of trays in the "Record-39" incubator.
Ptitsevodstvo 8 no.2:24 P '58. (MIRA 11:1)

1. Starshiy inzh.-mekhanik Upravleniya ptitsevodstva i Inkubatorno-
ptitsevodcheskaya stantsiya Vladimirskego oblastnogo upravleniya
sel'skogo khozyaystva.

(Incubators)

TESLENKO, I.I., inzh., KITASHEVA, V.F., matematik

Parameters of conveyor-type milking arrangements. Mekh. i elek.
sots. sel'khoz. 21 no.3:30-34 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii
sel'skogo khozyaystva.
(Milking)

TESLENKO, I.I., inzh.; KITASHEVA, V.F., inzh.

Effect of speed characteristics on the technology of continuous
production in machine milking. Trakt. i sel'khoz mash. no.2:
28-31 F '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii
sel'skogo khozyaystva.

TESLENKO, Ivan Ivanovich; KITASHOVA, Valentina Fedorovna;
KUZNETSOVA, L.A., red.; KRYUKOV, V.L., spets. red.

["Carousel-type" milking systems; from practices in the
use of milking conveyors] Drell'nye ustanovki "Karusel";
iz opyta primeneniia konveiernykh drell'nykh ustanovok.
Moskva, Miro tekhn. informatsii, 1964. 95 p.
(MIRA 18:5)

KITASHOV, I.S.

Experience in producing and erecting large reinforced structures.
Mekh.trud.rab. 9 no.12:25-26 D '55. (MLBA 9:5)

1. Glavnyy inzhener pravoberezhnogo armaturno-svarochnogo rayona.
(Reinforced concrete construction)

KITASHEV, I.S., inzhener.

Industrial production of concrete reinforcements. Mekh. stroi. 13
no.8:7-15 Ag '56. (MLRA 9:10)

(Reinforced concrete)

KITASHEV, I.S., insh.

Reinforcement of concrete. Energ.stroi. no.5:139-147 '58.
(MIRA 12:5)

1. Zamestitel' glavnogo inshenera Kuybyshevgidrostroya.
(Volga Hydroelectric Power Station--Reinforced concrete)

ALEKSEYEV, G.P.; ANDON'YEV, V.S.; ARNGOL'D, A.V.; BASKIN, S.M.;
 BASHMAKOV, N.A.; BEREZIN, V.D.; BERMAN, V.A.; PIYANOV, T.P.;
 CORBACHEV, V.N.; GRECHKO, I.A.; GRINBUKH, G.S.; GROMOV, M.F.;
 GUSEV, A.I.; DEMENT'YEV, N.S.; DMITRIYEV, V.P.; DUL'KIN, V.Ya.;
 ZVANSKIY, M.I.; ZENKEVICH, D.K.; IVANOV, B.V.; INYAKIN, A.Ya.;
 ISAYENKO, P.I.; KIPRIYANOV, I.A.; KITASHOV, I.S.; KOZHEVNIKOV,
 N.N.; KORMYAGIN, B.V.; KROKHIN, S.A.; KUDOIAROV, L.I.;
 KUDRYAVTSEV, G.N.; LARIN, S.G.; LEBEDEV, V.P.; LEVCHENKOV,
 P.N.; LEMZIKOV, A.K.; LIPGART, B.K.; LOFAREV, A.T.; MALYGIN,
 G.F.; MILOVIDOVA, S.A.; MIRONOV, P.I.; MIKHAYLOV, B.V., kand.
 tekhn. nauk; MUSTAFIN, Kh.Sh., kand. tekhn. nauk; NAZIMOV, A.D.;
 NEFEDOV, D.Ye.; NIKIFOROV, I.V.; NIKULIN, I.A.; OKOROCHKOV, V.P.;
 PAVLENKO, I.M.; PODROBINNIK, G.M.; POLYAKOV, G.Ya.; PUTILIN, V.S.;
 RUDNIK, A.G.; RUMYANTSEV, Yu.S.; SAZONOV, M.N.; SAZONOV, N.F.;
 SAULIDI, I.P.; SDOBNIKOV, D.V.; SEMENOV, N.A.; SKRIPCHINSKIY, I.I.;
 SOKOLOV, N.F.; STEPANOV, P.P.; TARAKANOV, V.S.; TREGUBOV, A.I.;
 TRIGER, N.L.; TROITSKIY, A.D.; FOKIN, F.F.; TSAREV, B.F.; TSETSULIN,
 N.A.; CHUBOV, V.Ye., kand. tekhn. nauk; ENGEL', F.F.; YUROVSKIY,
 Ya.G.; YAKUBOVSKIY, B.Ya., prof.; YASTREBOV, M.P.; KAMZIN, I.V., prof.,
 glav. red.; MALYSHEV, N.A., zam. glav. red.; MEL'NIKOV, A.M., zam.
 glav. red.; RAZIN, N.V., zam. glav. red. i red. toma; VARPAKHOVICH,
 A.F., red.; PETROV, G.D., red.; SARKISOV, M.A., prof., red.;
 SARUKHANOV, G.L., red.; SEVAST'YANOV, V.I., red.; SMIRNOV, K.I.,
 red.; GOTMAN, T.P., red.; BUL'DYAYEV, N.A., tekhn. red.

(Continued on next card)

ALEKSEYEV, G.P.---(continued). Card 2.

[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaya gidroelektrostantsiya; tekhnicheskii otchet o proektirovanii i stroitel'stve Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organisation and execution of construction and assembly work] Organizatsiya i proizvodstvo stroitel'no-montashnykh rabot. Red. toma: N.V.Razin, A.V.Arnol'd, N.L.Triger. 1962. 591 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin).

(Volga Hydroelectric Power Station (Lenin)--Design and construction)

KITASHOV, M. I.

Speeding up the kilning process in ground-type furnaces. [Suggested by M. I. Kitashov.] *Russ. i isobr. predl. v stroi. no. 146:22-25 '56.*
(MLBA 10:2)

1. Kirpichnyy zavod st. Apsheeronskoy, Krasnodarskogo kraya.
(Kilns)

KRAVIN, G.

S

"The Influence of Mercury salts on the Acid

"B.: Einfluss von Quecksilbersalzen auf die Saure-

and Lactoflavin Structure in Aspergillus Niger,"

und Lactoflavin-Bildung bei Aspergillus niger,"

Biokhim., 4, No. 3, 1939. Laboratory of Plant Physiology of the University of
Leningrad, -1939-.

[illegible]

KITAVIN, S

S

"Extraction of Riboflavin Crystals through the influence of quicksilver-salts in
Aspergillus Niger," Dok AN, 23, No. 6, 1940. Lab of Plant Physiology, Univ. of
Leningrad. -c1940-.

1. XITAVI, D. S.
2. USSR (600)
7. "Concerning the Question of Factors in the Formation of Vitamin B₂ by the Fungus Aspergillus niger". Uchen. Zapiski (Kishinevskiy Gos. Un-t) (Scientific Notes (Kishinev State University)), Vol III, No II, 1951, pp 31-56.
9. Mikrobiologiya. Vol XXI, Issue 1, Moscow, Jan-Feb 1954, pp 121-132. Unclassified.

KITAVIN, G.S.

CR

112

Activity of glucose oxidase and catalase during the action of mercuric chloride on *Aspergillus niger*. G. S. Kitavin *Antibiotiki* 10, 123-7 (1961); cf. C. I. 34, 1200, 33, 3670.
The normal formation of citric acid by *Aspergillus niger* can be directed towards the production of ribodiamine and gluconic acid by the action of NaF or HgCl₂ in the medium. But even types of *Aspergillus niger* which are incapable of producing citric acid also yield gluconic acid in the presence of HgCl₂. The reason for this is that the activity of glucose oxidase has been increased. The catalase activity of the mould also rises so as to take care of the extra H₂O₂ formed. The activity of polyphenoloxidase and peroxidase remains the same during the action of HgCl₂ on *Aspergillus niger*. The catalase activity of bakers' yeast increases from 12 to 65 units on incubating a 10% suspension of pressed yeast in 10% sugar solution at 30° for 24 hrs., in the presence of 0.1 mg. % HgCl₂.
H. Priestley

1951

KITAVIN, G.S.

Adaptive formation of catalase in the presence of action of hydrogen peroxide on *Aspergillus niger*. Biokhimiia, Moskva 17 no.3:336-338 May-June 1952. (ODML 25:1)

1. Department of Plant Physiology, Kishinev State University.

KITAVIN, G. S.

228T20

PI 228T20

"Mikrobiologiya" Vol 21, No 4, pp 438-443

USSR/Medicine, Biology - Vitamins Jul/Aug 82
"The Stimulation of Respiration and of Biosynthesis of Vitamin B₂ in *Aspergillus Niger*, by Toxic Agents," G. S. Kitavin, Kishenev State U

Gives detailed description of expts demonstrating the effect of toxic agents on the respiration and production of vitamin B₂ in this mold fungus. Tests showed that definite concns of mercuric chloride, zinc sulfate, sodium fluoride, and ammonium nitrate intensified the respiration of

228T20

Asper. niger with a subsequent increase in biosynthesized riboflavin per 1 gr of dry mycelium. Expts with a 0.05-0.1% concn of phenol doubled the intensity of respiration of the fungus, and also doubled its production of riboflavin. These expts were carried out according to the method of Sol-Antenko and Zhuravskiy, who designed a special app for that purpose, reducing the time of the expts to 4 hrs. Drawing of app is given.

CA

KITAVIN, G.S.

11"

Significance of iron in the formation of catalase by *Asper-*
gillus niger. G. S. Kitavin (State Univ., Kishinev)
Doklady Akad. Nauk S.S.S.R. 125 6 (1963); cf. *Uchenye*
Zapiski Khimikov. Univ. Mold. Nord 4 (1961); C.A. 45,
 7674A. —The organism grown in nutrient contg. 0.025%
 FeSO₄·7H₂O added deliberately shows decreased formation
 of citric acid; when Fe is absent or deficient the citric acid
 generation rises. The generation of catalase is reduced by
 a factor of 1 A 3 M Fe is not added; addn. of Fe rapidly
 causes a rise of the enzyme within 2-3 hrs. Ferric and ferri-
 cyanides have no such effect, but ferric sulfate and ferric
 oxalate are effective. However, MgCl₂ is also very effec-
 tive, especially when combined with Fe. G. M. K.

USSR

✓ Yeast fermentation of molasses liquor. G. S. Khaym (All-Union Sci. Research Inst. Hydrolytic and Ferment. Adv. Ind., Leningrad). *Microbiologiya* 23, 590-3 (1964).—Yeast used in the Balakhnii Plant molasses-liquor fermentation works are about 20% (*Saccharomyces exiguus* and 70% *S. cerevisiae*). Used alone, *S. exiguus* gives about 6% higher alc. yield than *S. cerevisiae* and ferments galactose much faster. Its weakness is much lower stability to reculturing over and over. *Schizosaccharomyces* should be tested on a corn scale; they give still higher alc. yields. Julian K. Smith

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722910017-2

RE: KIVAN, G.S.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722910017-2"

20-6-51/59

AUTHOR: KITAVIN, G.S.

TITLE: The Effect Produced by Ammonia upon Catalase Activity in Yeasts and *Aspergillus Niger*. (Deyatviye ammiaka na katalaznuyu aktivnost' drozhshey i aspergillus niger, Russian)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 6, pp 1363 - 1366 (U.S.S.R.)

ABSTRACT: Catalase is easily inactivated in acidous media, perhaps by the splitting off of iron atoms. Weak alkaline solutions, however, activate this ferment. It would be interesting to find out in what manner catalase activity changes under the influence of alkaline factors (e.g. ammonia) on living cells. Ammonia enters the cells relatively easily and is one of the most important metabolites itself. As shown by the experiments, the locating of yeast in hydrous solutions of ammonia essentially increases the catalase activity of the yeast. From table 1 we can see that it is already trebled with 0,2 M NH_3 after 2 hours, whilst it is increased 6 - 8 times with 0,03 - 0,1 M-solutions. However, catalase activity increases also in the case of the control when yeast was kept in water. On this occasion yeast must use its reserves, especially albumins. The ammonia of endogenous origin liberated by disamination can be the reason for the increase of catalase activity with starving yeast. Proteolysis increases under the influence of narcotics or in the case of a certain drying of vegetable tissue. Toluol, chloro-

Card 1/2

KITAVIN, G.S.; SHEN' VEN' MEY

Oxidative phosphorylation in rat liver homogenates following a brief fasting. Vop. med. khim. 8 no.2:210-213 Mr-Apr '62.

(MIRA 15:4)

1. Chair of Biochemistry, Institute of Chemical Pharmacology, Leningrad.
(LIVER) (PHOSPHORYLATION) (STARVATION)

KITAVIN, G. S.

Electrochemical measurement of oxygen, dissolved in a liquid,
in respiration tests. Nauch. dokl. vys. shkoly; biol. nauki no.3:
137-141 '62. (MIRA 15:7)

1. Rekomendovana kafedroy biokhimii Leningradskogo khimiko-
farmatsevticheskogo instituta.

(PLANTS—RESPIRATION) (OXYGEN)

5(2)

007/119-89-9-26/37

AUTHOR:

Kitavin, V.P.

TITLE:

Using a KG-B Quartz Oscillator for Measuring the Carrier Frequency of a RV-79 Radio Transmitter by the Heterodyne Method

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 9, p 46 (USSR)

ABSTRACT:

For determining deviations of the 656 kc carrier frequency of a RV-79 radio transmitter, the difference between the 66th harmonic of 10 kc of a KG-B quartz oscillator and this carrier frequency was measured by an UCh-2 instrument according to the heterodyne method. The 656 kc carrier frequency and the 66th harmonic of 10 kc were fed to the input of a receiver tuned to 656 kc. The frequency difference of 4,000 cps was measured by the UCh-2 instrument at the receiver output. Since the program of the radio transmitter was heard simultaneously, the receiver was tuned to 568 kc to decrease the audibility of the program. The quartz oscillator was checked against the 200 kc reference carrier frequency of a RV-71

Card 1/3

SOV/115-59-9-26/37

Using a KG-B Quartz Oscillator for Measuring the Carrier Frequency of a RV-79 Radio Transmitter by the Heterodyne Method

transmitter and adjusted in such a manner that its error at the 10 kc outlet did not exceed ± 0.03 cps, or ± 2 cps at the frequency of the 66th harmonic. The error of determining the frequency difference between the carrier and the 66th harmonic using the UCh-2 instrument is $\pm 0.03\%$. The absolute error is ± 1.2 cps, the mean square error ± 2.5 cps and the relative error of the method is $\pm 0.0004\%$. This method may be used for checking the carrier frequency of other radio transmitters, provided that the difference between their carrier frequencies and the oscillator frequency does not exceed the pass bandwidth of the receiver. The method is reliable and may be used for regular frequency measurements. The author developed this method for the Murmanskoy radiostantsii (Murmansk Radio Station) which is not equipped with the necessary instruments for checking the carrier frequency deviations by other methods. Recent-

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Using a KG-B Quartz Oscillator for Measuring the Carrier Frequency
of a RV-79 Radio Transmitter by the Heterodyne Method

ly, rigid tolerances of $\pm 0.003\%$ or less were established for carrier frequency deviations of radio stations.

Card 3/3

KITAY, P.

Geological metamorphism. Mestianik 6 no.9:32 S '61.
(MIPA 14:10)
(Metamorphism(Geology))

KITAYCHIK, B.G.

137-58-5-10267

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 197 (USSR)

AUTHORS: Batashev, K. P., Kitaychik, B. G.

TITLE: Silver Plating in Baths Without Cyanide (Serebreniye v netsianistykh elektrolitakh)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1957, Nr 188, pp 239-248

ABSTRACT: This study is devoted to determining the conditions required to produce Ag coatings of satisfactory quality in iodide solutions. An investigation of the polarization curves of deposition is made, and the dependence of current efficiency upon D_K is determined. The following two procedures are recommended for silver-plating practice: 1) 27 g AgCl per liter, 400 g KI per liter, 1-2 g gelatin per liter; temperature 25°C, $D_K = 0.1-0.2$ amps/dm²; 2) 60 g AgCl per liter, 450 g KI per liter, 1-2 g gelatin per liter; temperature 60°, $D_K = 2.5-3.0$ amps/dm². Deposits obtained from iodide solutions are not inferior in microstructure to the structure of Ag deposited from cyanide solution. An electroanalytical method of determining the Ag in iodide solution was developed parallel with the pursuit of the fundamental purpose of the investigation.

V. A.

Card 1/1

1. Silver plating--Effectiveness
2. Electrolytes--Properties

GREKOV, D.I., inzh.; PERKATOV, A.I., inzh.; KITAXCHIK, V.A., inzh.;
SEKRETAR', V.P., inzh.

Prospects of using synthetic materials in the manufacture of
boilers. Teploenergetika 11 no.3:28-32 Mr '64.

(MIRA 17:6)

1. Tsentral'nyy kotloturbinnyy institut.

BERSHTEYN, V.A., inzh.; Priznaniye nachest'nykh...
inzh.; NOVIKOVA, Ye.V., inzh.; INY, V., inzh.;...
inzh.; KITAYCHIK, V.A., inzh.; GLUSHKIN, I.A., inzh.;...
nauk; SUFRON, L.A., kand.tekhn.nauk, nauchnyy red.;...
kand.tekhn.nauk, otv.red.

[Stress-rupture strength and creep of glass-reinforced plastic
for use as shipbuilding material. "Nitel'naya prochnost' i
polzuchest' stekloplastikov kak suibstratsionnykh materialov.
Leningrad, Izd-vo "Morskoi transport," 1965, 48 s. Leningrad.
TSentral'nyi nauchno-issledovatel'skiy institut morskogo flota.
Trudy, no. 53) (MIRA 19:6)

1. Sotrudniki TSentral'nogo nauchno-issledovatel'skogo
kottoturbinnogo instituta imeni Polzunova (Ber Inzh. V. Kitaychik).

TSYGANKOV, P.S. [TSyhankov, P.S.]; KITAYCHUK, N.M. [Kytaiichuk, N.M.]

Work practices of the rectification shops of the Bar Distillery.
Khar. prom. no. 1:43-45 Ja-Mr '63. (MIRA 16:4)

(Bar—Distilling industries—Equipment and supplies)

L 22039-66 FSS-2/EWT(1)/T IJP(c)

ACC NR: AP6009321 SOURCE CODE: UR/0256/65/000/009/0361/0062

AUTHOR: Kitaychuk, N. N. (Captain)

ORG: None

TITLE: Attachment to the gun camera of C-13 type

SOURCE: Vestnik protivovozdushnoy oborony, ²⁴no. 9, 1965, 61-62

TOPIC TAGS: photographic camera gun, fire control system, control circuit, *gun sight camera, circuit design, electric motor, power supply/C-13*

ABSTRACT: The author describes an electric device used for controlling and operating the photographic camera gun of C-13 type. The device was designed and prepared by a military sub-unit for their own use. The device consisted of an electric circuit schematically represented by a wiring diagram. The circuit included various resistors, capacitors, neon lamps, relays, switches, fuses, push-buttons, etc. The circuit was fed directly from a 220-v, 50-cps power source. The 26-v motor of the C-13 gun was fed from the circuit via resis-

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tors. A 5023-voltage stabilizer was used in the circuit. The reliability of operations depended upon careful adjustment of the eccentric cam and contacts mounted on the C-13 motor shaft. Picture could be taken either manually or automatically every 10 sec, 1 min, 3 min and 6 min. The changing of film frames was signaled by the illumination of a clock. The procedure of attaching and adjusting the circuit to the C-13 gun was explained as well as the arrangement and operation of the circuit. Orig. art. has: 1 diagram.

SUB CODE: 14/19,01 / SUBM DATE: None / ORIG REF: 000 / OTH REF: 000

Card 2/2 MJS

KITAYENKO, G.

29092-Ustanovka Dlya Sushy Drevesiny V Pole Vysokoy Chastoty, Proektirovaniye i
Postroyka Melkikh Sudov, No. 1, 1949, s. 30-35

80: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

KITAIENKO, G. I.

Spravochnik elektromontazhnika [An electrician's handbook]. Moskva, Sudpromgiz. Vol. 1. 1952. 647 p.

SO: Monthly List of Russian Accessions. Vol. 6 No. 7 October 1953

KITAYENKO, G.I., laureat Stanlinskoy premii, redaktor. POYSEEV, A.D.,
Inzhener; KHOKHLOV, A.I., inzhener, retsentsent; KONTOROVICH, A.I.
tekhnicheskii redaktor; FRUMKIN, P.S., tekhnicheskii redaktor.

[Electrician's manual] Spravochnik elektromontashnika. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroitel'noi i sudostroitel'noi lit-ry.
- Vol. 2 1953. 275 p. [Microfilm] (HLRA 8:9)
(Electricity on ships) (Telegraph, Wireless- Installation
on ships)

KITAYENKO, O.I., laureat Stalinskoy premii, redaktor; PETERSON, M.W.,
tekhnicheskii redaktor

[Handbook for electricians] Spravochnik elektromontashnika. Isd.
2., dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i
sudostroit. lit-ry, Vol. 1. 1954. 584 p. (MLRA 7:10)
(Electric apparatus and appliances)
(Electricity on ships)

KITAYENKO, G.I., laureat Stalinskoy premii; BARSHCHEVSKIY, S.V., retsentsent;
POL'SKAYA, R.G., tekhnicheskii redaktor; DLUKOKANSKAYA, E.A., tekhnicheskii redaktor.

[Electrician's handbook] Spravochnik elektromontazhnika. Leningrad,
Oos. soiusnoe nauchno-tekhn. izd-vo sudostroit. promyshl. Vol.3.
1954. 639 p. (MIRA 8:5)
(Electric engineering)

KITAYENKO, G.I., laureat Stalinskoy premii, redaktor; SHAURAK, Ye.M.,
redaktor; KAMOLOVA, V.M., tekhnicheskii redaktor; KONTOROVICH, A.I.,
tekhnicheskii redaktor

[Electrician's manual] Spravochnik elektromontashnika. Leningrad,
Gos. soluz. izd-vo sudostroit. promyshl. Vol.4. 1956. 388 p.
(Electric engineering) (MLRA 10:2)
(Electricity on ships)

PHASE I BOOK EXPLOITATION

287

Spravochnik elektromontazhnika (Handbook for Personnel Concerned with Electrical Installation and Wiring) v. 5. Leningrad, Sudpromgiz, 1957. 575 p. 15,000 copies printed.

Ed. (title page): Kitayenko, Georgii Ivanovich, Stalin Prize Laureate; Ed. (inside book): Shaurak, Ye. N.; Tech. Eds.: Kontorovich, A. I., Dlugokanskaya, Ye. A.

PURPOSE: The handbook is intended for engineers, technicians, foremen, and builders concerned with the installation, wiring, testing, and inspection of electrical equipment either aboard ships or in electric power systems.

COVERAGE: Volume 5 of this handbook presents the following information: the content and extent of technical documentation; technology and organization of electrical installation and wiring work aboard ships; tools, equipment, devices, and fixtures employed in electrical installation and testing of electrical equipment. In addition, basic problems associated with norm-setting of material expenditures are reviewed. Detailed instructions are given on

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Handbook for Personnel Concerned with Electrical (Cont.) 287

installation of electrical equipment and laying of main cables and auxiliary wiring aboard ships. Tools, installation equipment, and devices for test-loading of installed electrical equipment are also described in some detail. Although the handbook is published primarily for use in the shipbuilding industry, the material presented can be of general use in the electric power industry. There are no references.

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Section 31. Technical Documentation of Electrical Installation and Wiring Work	7
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GALICH, Iliodor Iliarionovich, KITAYENKO, G.I., ~~retsensent~~; TIMOFEEV,
B.S., ~~retsensent~~; BOYTSOV, A.Ye., ~~retsensent~~; NIKITINA, M.I.,
red.; TSAL, R.K., tekhn. red.

[Electric control systems of ships] Sudovye elektricheskie
ustanovki upravleniia. Leningrad, Sudpromiz, 1962. 259 p.
(MIRA 16:2)

(Ships--Electric equipment)
(Ships--Electronic equipment)

GLONYAGIN, Yuriy Vsevolodovich; KOROBV, Pavel Konstantinovich;
MARKOV, Edgem Trofimovich; MESHCHANINOV, Pavel
Aleksandrovich; KITAYENKO, G.I., kand. tekhn. nauk,
retsensent; KHOMYAKOV, N.M., doktor tekhn. nauk,
retsensent; SHELLOV, B.V., nauchn. red.; NIKITINA, M.I.,
red.; CHISTYAKOVA, R.K., tekhn. red.

[Electric equipment and electric propulsion of ships]
Elektrooborudovanie i elektrodvizhenie sudov. [By] IU.V.
Gloniagin i dr. Leningrad, Sudpromgiz, 1963. 347 p.
(MIRA 17:2)

PUTYAGO, Yuriy Sergeyevich; SOKOLOV, A.G., retsenzents; SHCHERBAKOV,
V.I., retsenzents; KITAYENKO, G.I., nauchn. red.; KVOCHKINA,
G.P., red.; KONTOROVICH, A.I., tekhn. red.

[Manual for ship electricians] Spravochnik sudovogo elektro-
montazhnika. Leningrad, Sudpromgiz, 1963. 672 p.
(MIRA 17:1)

KITAYENKO, G.I., kand. tekhn. nauk (Leningrad)

Increasing the frequency of a.c. and determination of its optimum
value in the continued electrification of the U.S.S.R. Elektrichestvo
no.2:78-83 P '65. (MIRA 18:3)

MAGARSHAK, Boris Grigor'yevich; KRASIL'SHCHIKOV, L.B., kand.
tekhn. nauk, retsenzent; KOLESNIKOV, N.V., inzh.,
retsenzent; KITAYENKO, G.I., kand. tekhn. nauk, nauchn.
red.; OZEROVA, Z.V., red.

[Marine electrical measuring instruments; a reference
book] Sudovye elektroizmeritel'nye pribory; spravoch-
nik. Leningrad, Sudostroenie, 1965. 411 p.
(MIRA 18:8)

KITAYEV, A.; SINEGUBOV, Yu.

New standards for pallets. Avt.transp. 39 no.2:14-17 P '61.
(MIRA 14:3)
(Unitised cargo systems—Equipment and supplies)

YEVSTRATOV, A.; KITAIEV, A.

Efficient transportation of mineral fertilizers. Art. transp.
42 no.3:3-5 Mr '64. (MIRA 17:4)

GUBIN, A.I.; KITAYEV, A.M.; CHUDOV, A.S., inzh., retsenzent;
CHERNYAK, V.S., inzh., red.

[Welding and soldering thin-walled pipes] Svarka i paika
tonkostenrykh truboprovodov. Moskva, Mashinostroenie,
1964. 110 p. (MIRA 17:7)

KITAYEV, A. M.

AID P - 5214

Subject : USSR/Engineering

Card 1/1 Pub. 107-a - 13/13

Author : Kitayev, A. M., Kand. of Tech. Sci.

Title : Resistance roll-spot consultation on welding in manufacturing of fire extinguishers.

Periodical : Svar. proizv., 7, 32, J1 1956

Abstract : The author gives a concise description of how to use the resistance roll spot welding to the best advantage in mass manufacturing of cylindrical containers for fire extinguishers. He suggests the equipment and machinery for the purpose. The Chumlyak (Kurganskaya Oblast') Plant for Fire-Fighting Equipment is to apply this method of welding.

Institution : As above

Submitted : No date

KITAYEV, A.M., kandidat tekhnicheskikh nauk.

Consultation. Svar. proizv. no.7:3 of cover J1. '56.

(MLRA 3:9)

(Electric welding)

KITAYEV, A.M.

Method for testing the strength of adhesion of the metalized
layer with the base. Zav.lab. 22 no.3:335 '56. (MLRA 10:5)
(Metals--Testing)

32-8-43/61

AUTHOR: Kitayev, A.M.

TITLE: A Method for Testing Plane Samples as to Fatigue at High Temperatures (Mashina dlya ispytaniy ploskikh obratsov na ustalost' pri vysokikh temperaturakh)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 8, pp. 985-986 (USSR)

ABSTRACT: The machine described has already been in use for many years and is used for testing plane (flat) samples of up to 2,5 mm thickness at temperatures of up to 900°. It consists of a ground plate upon which the stands upon which the strip-like samples are fastened (wedged), are firmly mounted. On the left there is a device by means of which the left ends of the samples are subjected to a vibration of 1410 oscillations per minute. A mobile furnace is placed between the stands and above the samples. On this machine characteristic fatigue properties of the metal foils are investigated at high temperatures in homogeneous as well as in welded condition, and the changes which may occur on this occasion as a result of technological operations (copper- or nickel plating, electric polishing etc) are determined. On the basis of the results obtained the diagrams corresponding to the case under investigation are arranged. In this paper a diagram for the type of steel 1X18H9 is given as an example. There is 1 figure and 1 table.

Card 1/1

AVAILABLE: Library of Congress

KITAYEV, A., inzhener.; BATISHCHEV, I., inzhener.

Simple dumping devices. Avt.transp. 35 no.4:11-12 Ap '57.
(MLRA 10:5)

(Dump trucks)

135-58-7-5/20

A 117

AUTHOR: Gel'man, A.S., Doctor of Technical Sciences, and Vitayev, A.M.,
Candidate of Technical Sciences

TITLE: Roller Butt Welding with Straps (Rolikovaya sverka vstyk s
nakladkami)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 7, pp 17-19 (USSR)

ABSTRACT: The article presents results of experiments on roller butt
welding of sheet steel with the use of straps. The materials
used in experiments were low-carbon steel, "Kh17N2" chrome-
steel, "1Kh8N9T" stainless steel, and "VT-1D" commercial ti-
tanium; the straps in all experiments were made of "1Kh18N9T"
steel of 0.3 mm thickness and 4 mm width. This material was
chosen because of its high electrical resistance and low heat
conductivity. After tests, the following conclusions were
made: 1) blanks welded with straps can be subjected to stamping
with deep drawing, bending and other shape-changing operations;
2) the described welding method can be used for sheets of over
3 mm thickness, unlike the overlap welding method; 3) the
strength of welds under static and alternate loads does not
differ from the strength of overlap joints produced by roller

Card 1/2

Roller Butt Welding with Straps

135-58-7-5/20

welding.

There are 4 tables, 2 graphs, 2 diagrams and 4 photographs.

1. Spot welding--Test results 2. Steel--Spot welding

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KITAYEV, A.M.

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PHASE I BOOK EXPLOITATION

SCW/5232

Brodskiy, A.Ya., ed.

Payka nerzhavayushchikh staley i zharoprochnykh splavov (Brazing of Stainless Steels and Heat-Resistant Alloys) Moscow, 1959. 51 p. 5,000 copies printed. (Series: Moskovskiy Dom nauchno-tekhnicheskoy propagandy. Peredovoy opyt proizvodstva. Seriya: Progressivnaya tekhnologiya mashinostroyeniya, vyp. 18)

Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Resp. Reviewer for This Publication: L. M. Garmash; Tech.
Ed.: R.A. Sukhareva.

PURPOSE: This collection of articles is intended for brazers.

COVERAGE: The collection contains three articles discussing general problems encountered in brazing. The joining of thin-walled pipes and the importance of flame brazing are given special attention. No personalities are mentioned. There are no references.

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Brazing of Stainless Steels (Cont.)

SOV/5232

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Gubin, A.I. Some General Problems in Brazing Stainless Steels and Heat-Resistant Alloys 3

Kitayev, A.M. Joining Thin-Walled Pipes of 1Kh18N9T Steel 15

Gorokhov, V.A. Flame Brazing With Heat-Resistant [Hard] Solders 40

AVAILABLE: Library of Congress

Card 2/2

VK/UTC/ESP
6-15-81

KITAYEV, A.; RATISHCHEV, I.

Transporting single freight in containers as packages. Avt. transp.
36 no.9:7-9 8 '58. (MIRA 11:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut avtomobil'nogo
transporta.

(Transportation, Automotive)

BALKOVETS, D.S., doktor tekhn. nauk, red.; FOPLAVKO, M.V., kand. tekhn. nauk, red.; KITAYEV, A.M., kand. tekhn. nauk, red.; BELITSKAYA, A.M., red. izd-va; NOVIK, A.Ya., tekhn. red.

[Welding of nonferrous metals and alloys] Svarka tsvetnykh metallov i splavov; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz, 1961. 159 p. (MIRA 14:12)

(Welding)

KITAYEV, A.M.; SOKOLOV, Yu.V.

The UM-3 testing machine. Av.prom. 26 no.8:93-94 Ag '57.
(Fatigue testing machines) (MIRA 15:4)

AL245482 BOOK EXPLOITATION

Gubin, A. I., Kitayev, A. M.

Welding and soldering thin-walled pipelines (Svarka i payka tonkostennykh truboprovodov) Moscow, Izd-vo Mashinostroyeniye, 1964. 110 p. Illus. 8050 copies printed. Publishing house editor: L. I. Kovalenko; Technical editor: A. Ia. Novik; Reviewer: Engineer A. S. Chudov; Editor: Engineer V. S. Chernyak.

TOPIC TAGS: welding, soldering, thin walled pipe, bending, quality control, anticorrosion treatment, stainless steel pipe, low carbon steel pipe, titanium pipe, aluminum alloy pipe, nickel plating, parkerizing, flaw detection.

PURPOSE AND COVERAGE: This book is intended for designers and technicians in the aviation, automobile, tractor, chemical, food-processing, and other branches of machine building. The techniques of bending, welding, soldering, anticorrosion treatment, installation, and quality control of thin-walled piping of different specifications made of stainless and low-carbon steels, titanium, aluminum, copper, and brass are described. Information is presented concerning solders

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AM4045982

and fluxes and also concerning the addition materials and inert gases utilized in welding and soldering ducts with a gas torch and with high-frequency current. The causes of the formation of defects are analyzed, as well as methods of prevention. Recommendations are presented concerning the design of welded and soldered joints in ducting. Information is given concerning the strength of ducts under static and dynamic loading.

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2. Elements of design and classification of ducts - - 9

3. Manufacture, bending, and assembly of ducts - - 19

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L 21526-65

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5. Welding ducting made of aluminum alloys - - 42
6. Contact seam welding of ducts - - 47
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